

SRS-001 SOUND RECEPTION SYSTEM



DS-350 Issue 05

Thank you for your interest in Ziztel - we are a UK based manufacturer of PAGA and Intercom products. Our systems are mainly designed for use in Military, Marine and Hazardous Oil, Gas and Petrochemical industries.

The SRS-001 sound reception system enables the officer on the bridge to receive externally transmitted audio picked up by a special locally positioned quadrant microphone transducer. Sound reception is possible over a 360 degree capture area. The package is automatically monitored to ensure critical path security is continuously checked. An optional DVR capability enables simple time and date stamped post incident investigation review.

ZIZTEL SRS-001 SOUND RECEPTION SYSTEM

Marine grade construction – survives severe environmental service conditions

Digital Signal Processing based – Excellent sound resolution

Monitored microphone critical path – early warning of sound reception system deterioration

Multiple display positions – suitable for ocean going liners

The Ziztel SRS-001 is a secondary navigational aid for use on board ships allowing the Officer in charge to monitor sound external to the bridge location. The package comprises of 1) SRS-001-M4-II which consists of an array of directional microphone capsules mounted in an assembly to facilitate 360-degree reception of external sound; 2) SRS-001 M master receiver panel; 3) Further SRS-001M master receiver panels fitted as required. The SRS-001-M4-II microphone station consists of a high-grade polycarbonate ultra violet corrosion / radiation proof enclosure with stainless steel protective guard which carries the multiple directional transducers. The assembly is designed to operate continuously in an external exposed location ensuring long trouble-free life in environmental extremes. The unit is intended to be positioned on top of the wheel house and is unobstructed over 360 degrees. The microphone is connected to the master unit located on the bridge by a 4-x pair cable which carries audio, data and power supply.

The SRS-001 head end is located on the bridge console

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The SRS-001M bridge unit carries an integral loudspeaker, power amplifier, volume control, display dimmer switch and DSP to manage the microphone transducer assembly. A colour screen display provides an image of the boat plot plan Portside and Starboard with sound direction indicated by a large green arrow. Interfaces to the SRS-001M are, PAGA / Main Broadcast System, external or integrated DVR Voice recorder package, Typhoon whistle and vessel supervisory system.

The unit can be specified with integral DVR SRS-001MDVR enabling audio from the microphone to be downloaded to a local memory capable of recording up to 68,000 hours thereby aiding simple post incident investigations.

The system meets the strict requirements of IMO SOLAS Annex A1 1- 4.58 and Annex B Module B; SOLAS 74 Regulation V18,19 and X-3 resolution A.694(17) IMO resolution MCS 96 (70) and 191 (79)

The package is automatically supervised ensuring availability of the microphone link at all times; warning is extended to a fault report indication on the SRS-001M panel as well as extension of volt free 'trouble' contacts to an external supervisory which can be activated for power supply supervision where dual AC / DC mains operation is specified.

Mains supply input is dual 24 VDC and AC 90 – 254 V 50/60Hz.



SRS-001-M4 II field located
microphone transducer shown left

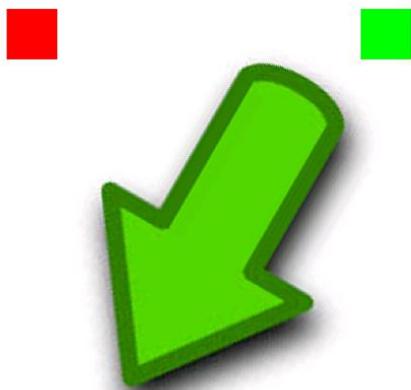


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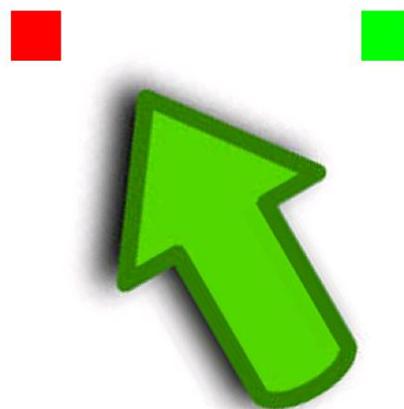
Mains supply input	24 VDC Battery and / or 24 VDC from SRS-001-PSU AC to DC convertor
AC input (via in line PSU convertor)	90 – 254 VAC 50 / 60 Hz
Consumption	20 Watts
Heat emission	SRS-001 M -4 Watts SRS-001-M4 -II 3 Watts
Operating temperature range	SRS-001-M -10 C to + 40 C SRS-001-M4 -II -40 C to + 60 C
Location	SRS-001-M safe area internal SRS-001-M4 -II safe area external
Weight	SRS-001-M 4 Kg SRS-001-M4 -II 6Kg
Dimensions	SRS-001-M 220 x 160 x 100 mm SRS-001-M4 -II 160 x 160 x 160 mm
Display	Colour LCD Liquid crystal 65 x 108 mm
Volume control	Yes - variable
Dimmer switch	Yes – high / low
Supply on indication	Yes - green
Trouble indication	Yes - red
Integral loudspeaker	Yes – 500 milli Watts
Event recorder output	Yes
Trouble contact output	Yes
Typhoon mute input	Yes
PAGA / MBS mute input	Yes
Microphone / head end cable	4 pair with overall screen up to 100 Metres length 0.5mm CSA / Conductor

Ziztel Sound Direction Indicator V1.2



Main 24V: ON | Battery: OFF | +/-5V: OK
Mic. temp. = 31`C, Heater : Off
PAGA Mute: OFF | Typhoon: OFF

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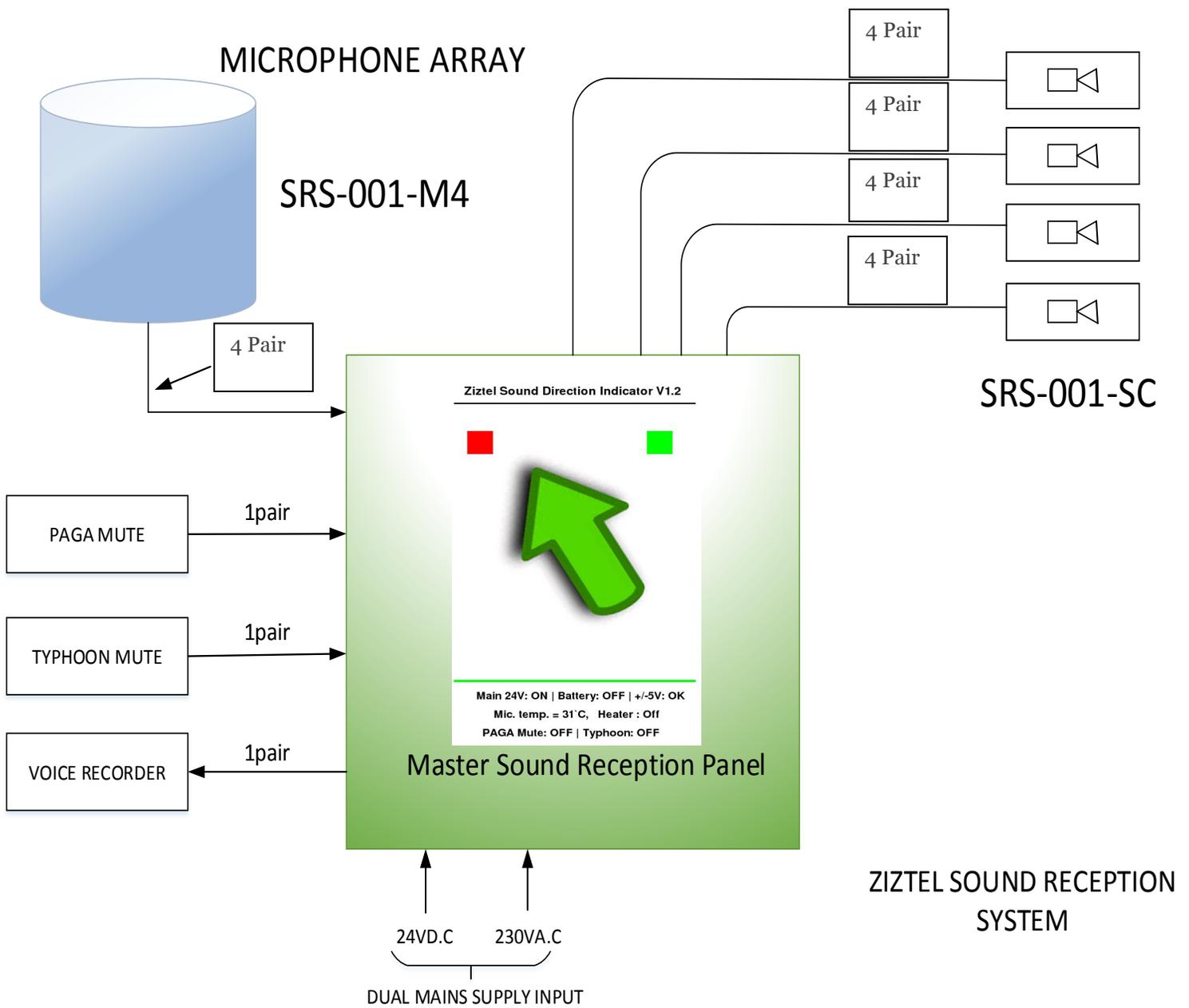


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Note: An optional volt free supervisory 'dry' contact is available to remote SRS trouble fault reporting

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